PROJECTED WORKS.—Advertisements have been issued for tenders, by 10th July, for the erection of a workhouse, &c., at Wokingham, Berks; by 8th, for the erection of a savings' bank at Saffron Walden, Essex; by 3rd, for extensive additions to the Newmarket union-house; by 20th, for the works required in the erection of the Durham new county infirmary; by 10th, for the execution of the different works in the extension of the male and female noisy wards of the Gloucestershire lunatic asylum; by 8th, for the formation of a tunnel and other works on the Bristol Waterworks Company's aqueduct; by same date, for the formation of a wrought-iron aqueduct, with cast-iron saddles for same; by 24th July, for the execution of the works of the Great Northern Railway between Copenhagen-fields and King's Cross; by 5th, for a supply of 100 passenger-carriages and 32 trucks, &c. for same; by 11th, for the erection of a circular engine shed, 150 feet diameter, for the Midland Railway Company; by 10th, of a schedule of prices for executing the works of the Reading, Guildford, and Reigate Railway between Ash and Farnborough, a length of about 4½ miles; by 4th, for the supply of turn-tables, switches, crossings, tanks, &c., for the general railway station at Shrewsbury; by 3rd, for the supply of 18,000 sleepers of larch, &c. for the Shrewsbury and Wellington Railway; by 5th, for laying about 13,000 yards of 2 to 8 in. gas mains for the Richmond Gas Company; by 6th, for the erection of a third story with attics to the Detachment Hospital at Chatham; and by a time not specified, for the reconstruction of the roof of St. Paul's Church, Bedford, and for relaying the same with lead.

YORKSHIRE UNION OF MECHANICS' INSTITUTES.—The eleventh annual meeting of this union took place at Ripon, on Tuesday week. From the report, says the *Leeds Intelligencer*, we gathered the following facts:—The union, at last annual meeting, consisted of 63 institutions, but now of 81. Seventy have 13,740 members—an increase of 1,500 members last year. In towns of above 10,000 inhabitants, one in every 53 of the entire population is a member of the local Mechanics' Institute. In towns of above 5,000 inhabitants, and under 10,000, one in every 37 is a member. In towns of under 5,000 inhabitants, one in every 27 is a member. Sixty institutions possess 37,169 volumes in their libraries. At 40 institutions 550 lectures were delivered during the winter (six months) session. Navvies have been instructed in several of these institutes.

UNION OF LITERARY INSTITUTIONS.—A meeting has been held at Hexham, for the purpose of establishing "a Northern Union of Literary and Mechanics' Institutions," for mutual interchange of good offices and assistance, engagement of lecturers, &c., on principles similar to those established in Yorkshire amongst the mechanics' institutions.

LONDON MECHANICS' INSTITUTION.—A second exhibition of models and drawings, executed by the members of the evening classes of the London Mechanics' Institution (consisting of specimens from the modelling, architectural, ornamental, perspective, mechanical, living model human figure, and landscape, drawing classes), will open on Monday, July the 10th, and remain open every evening during the week to members' friends and members of any other institution.

BUILDINGS IN FOLKESTONE.—Contracts were signed and the first stone laid on Monday last for twenty-one houses, forming part of the Marine Parade, Folkestone, Kent, Mr. R. Tress, architect. The tender of Mr. Lucas, of Folkestone, 22,000*l.*, was accepted, no other estimate being solicited.

CESSPOOLS.—A well-wisher to sanatory improvement says, he has recently seen men (apparently in the employ of the Metropolitan Commissioners of Sewers) engaged in emptying cesspools with a pump, &c., and asks whether, after the cesspools have been thus emptied, the commissioners allow them to be used again? In some situations there is no alternative.

ASYLUM FOR AGED FREEMASONS.—A site has been selected, and the building of the asylum, which is to cost 4,000*l.*, will at once be proceeded with. For that purpose there is at present available a fund of 4,338*l.*

THE GREAT CROTON AQUEDUCT AT NEW YORK, has failed in the amount of its supply, and the people are beseeching the authorities to use the water from the north or east rivers for watering the streets.

TO CORRESPONDENTS.

"*Underground Water-pipes.*"—An inquirer writes,—"Allow me to ask your scientific readers, whether zinc or galvanised iron would be preferable for underground pipes for the conveyance of water? or whether either can be recommended for that purpose?

"*H. G.*"—We give notice of all architectural competitions which come under our eyes.

"*S. H.*"—We must see for ourselves, before we can give publicity to so serious a statement.

"*C. H.*"—The sketch left will not suit us. We shall be happy to look at the others if left for us at the office.

"*Intolerance.*"—We cannot say: write to the patentee, whose name is given in the article.

"*B. H.*"—The word *jamb* is derived from the French, but pronounced as English; the *a* is sounded as in "ram," and the *b* silent.

"*B. K.*"—The metal rod or rope running up the Nelson monument (and which, by the way, greatly disfigures it), is a lightning conductor.

"*T. B.*"—If the matter has not been explained, write again to the editor.

Received.—"E. A." "Junius." "E. W. G." "W. D." "E. C. L." (we will call). "W. G. J." "J. H." "W. P." "T. C." "W. M." (the inclosure shall be inquired for).

"*Books, Prices, and Addresses.*"—We have not time to point out books or find addresses.

ADVERTISEMENTS.

TO ARCHITECTS—COMPETITION AND OTHER DRAWINGS.

MR. THOMAS S. BOYS, Member of the New Society of Painters in Water Colours, and author of "The Picturesque Architecture of Paris, Ghent, Rouen, &c." and of "London as it is," offers his services in Finishing Backgrounds, Landscapes, Perspective Views, Interiors, &c. From the long experience he has had in such subjects, he is fully aware of the points essentially necessary to be attended to. Drawings and designs lithographed in a superior manner.—Address, MR. BOYS, 61, Great Titchfield-street, Oxford-street.

TO ARCHITECTS AND BUILDERS.

CHUBB'S WROUGHT-IRON and FIRE-PROOF DOORS and FRAMES, for strong Rooms. A large stock of the above, of all sizes, made in the best manner, and of different strengths, fitted with CHUBB'S PATENT DETECTOR LOCKS, throwing from two to twenty bolts, constantly on sale, at very moderate prices. FIRE PROOF SAFES of every size, and Patent Detector Locks and Latches for all purposes.—C. CHUBB and SON, sole Manufacturers, 57, St. Paul's Churchyard, London.

By Her Majesty's / Royal Letters Patent.

BAILLIE'S PATENT ROUNDED RIM LOCKS, WITH SECRET AND SECURE PASSAGE.

THIS CHEAP and USEFUL ARTICLE obviating the unsightly appearance and insecurity of the common rim lock, can be obtained from the Manufacturers, Messrs. CARPENTER and BAILLIE, Willenhall; or from the sole Agent, MR. JOHN FAULKNER, Ironmonger, 67, St. Martin's-le-Grand, London, opposite the new Money-Order Office.

T. PUGH'S REGISTERED RIM LOCK.—T. PUGH and Co. beg to invite the attention of Architects, Builders, and others, to those new Rim Pass-lock and Bead Locks and Latches, in either brass or iron, possessing great advantages in form, over the usual Rim Lock and also in the quality, and produced at very moderate prices; each lock is warranted perfect and complete, with patent shifting spindles.—To be had only of T. PUGH and Co., 13, King-street, Cheapside, City, at their Ironmongery Warehouse, where they keep an extensive and most complete stock of hammered and cut nails, iron and brass foundry, finished locks and latches, bath, half-polished, and rabbeted; porcelain, glass, ivory, buffalo horn, wood, and all kinds of fancy mortice lock furniture; all goods of the best manufacture, and of the same superior quality they have been accustomed to send out for upwards of the last twenty years.

J. and J. HARTILL'S STOVE, FENDER, FIRE-IRON, and GENERAL FURNISHING IRON-MONGERY WAREHOUSE, 30, WEST SMITHFIELD.

Register Stoves, 6d. per inch.
Elliptic Stoves, 2½d. per inch.
Cottage Ranges, with Oven and Boiler, 3 ft., 2l.
Self-acting Ranges, with Oven and Boiler, bright fittings, 3 ft. 6 in., 3l. 15s.
Drawing-Room Fenders 14s. each, usually sold at 1l. 1s.
All Goods Warranted.
J. and J. Hartill are Ironfounders, Fender and Fire-Iron Manufacturers at Dudley. Established 1785.

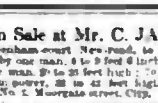
RAIN-WATER PIPES, Heads, Shoes, and Elbows, Half-round and O. G. Gutters, Sash Weights, Ballin Bars, Sink and Stable Traps and Gratings, Air Bricks, Coal Plates, &c. Gas and Water Pipes from ½ inch, to 12 in. in diameter, with Bends, Branches, Syphons, and Lamp Columns; also Hot-water Pipes, with all the usual connections. A large Stock of the above Castings at JONES'S Iron Bridge Wharf, No. 6, Blackfriars, Southwark.

FLEXIBLE INDIA-RUBBER PIPES AND TUBING, For Railway Companies, Brewers, Distillers, Fire Engines, Gas Companies, Gardening and Agricultural purposes, &c.

THE PATENT VULCANIZED INDIA-RUBBER HOSE-PIPES are made to stand hot liquor, and acids without injury—do not become hard or stiff in any temperature that are always perfectly flexible; and as they require no application of oil or dressing, are particularly well adapted for locomotive engines, railway cranes, fire engines, pumps, gas, beer engines, gardens, and all purposes where a perfectly flexible pipe is required. Made all sizes, from ¼ inch bore upwards, and of any length to order. Vulcanized India rubber garden hose fitted with brass taps, copper branch and roses complete, ready to be attached to pumps, water butts, or cisterns. Sole manufacturers: JAMES LYNE HANCOCK, Goswell-mews, Goswell-road, London.

N.B. Vulcanized India-rubber washers of all sizes for joints of hot water and steam pipes, and vulcanized sheet rubber any thickness, for all kinds of joints, and other purposes.

PUMPS on Sale at Mr. C. JACK'S, Nos. 6 and 9, Tottenham-court New-road, to raise 100 gallons of water per minute, by one man, 6 to 9 feet 6 inches high; 35 gallons per minute, by one man, 9 to 25 feet high; 70 gallons per minute, by one horse power; 80 to 42 feet high, and other sizes.—Patentees' Offices, No. 1, Moorgate-street, City.



LAP WELDED IRON TUBES.—W. H. RICHARDSON, Jun. and Co., MANUFACTURERS of every description of WROUGHT IRON TUBES for Locomotive and Marine Boilers, Gas, Steam, and other purposes. PATENT TUBE WORKS, DARLASTON, STAFFORDSHIRE.

TO ARCHITECTS, BUILDERS, &c.

COPPER-WIRE CORD.—R. S. NEWALL and Co.'s PATENT IMPROVED COPPER-WIRE CORD for WINDOW SASH LINES, Bell Ropes, Lightning Conductors, Hanging Pictures, Cash Cord, and for various other purposes for which hempen rope has hitherto been used. This new and valuable Patent is that superseding the use of the hempen cord, and is strongly recommended to all builders and other parties connected with the above. The Wire Cord may be had wholesale, and specimens seen at the office of the Patentees, No. 103, Fenchurch-street. W. T. ALLEN, Agent, at retail of R. and J. DEANE, 48, King William-street; K. PARK, 180, Fleet-street; T. JONES, 62, Charing Cross, and GIBBONS and CO., 240, Oxford-street (also of all respectable Ironmongers).

LIGHTNING CONDUCTORS for BUILDINGS—SMITH'S PATENT COPPER WIRE ROPE is being daily employed for the protection of CHURCHES and other buildings from the effects of thunder-storms. It possesses important advantages over other forms of conductors. References can be given where it has been applied for nearly three years to CHURCHES, PUBLIC and PRIVATE BUILDINGS, &c. &c. Its general adoption in the Naval and Mercantile Marine of this and other countries is the strongest possible EVIDENCE of its EFFICIENCY, &c.

SMITH and ENGLISH beg the attention of those engaged in building to their IMPROVED PATENT PANELLED and REVOLVING IRON SHUTTERS.—Also, the Patent Weather-tight Fastening and Oil Bar, for French Casements, which are so much admired for their security, simplicity, cheapness, and efficiency. Of the merits of their

Patent Double and Single Action Door Springs,
Improved Flooring Cramps,
Patent Wire Sash Lines, &c. &c.,

little need be said, as they are pretty generally known and appreciated.

Manufactory for Iron Staircases, Sliders, and other Iron-grounds, Rooves, Plain and Ornamental Palisading, Gates, and Railings.—Also, Metal Sashes, Skylights, Half-lapped Plates, Brass, Butt, and other Hinges. Buildings heated upon a new, safe, and superior plan.

Estimates given for every description of Metal-work.

SMITH and ENGLISH, 62, Princes-street, Leicester-square, London.

JENNINGS, Patentee of the SHOP SHUTTER SLIDE and FASTENER, which requires NO BAR of the INDIA RUBBER TUBE on the PATENT JOINT, &c. &c.—29, Great Charlotte-street, Blackfriars-road.

SNOXELL'S PATENT SAFETY REVOLVING WINDOW SHUTTERS, Manufactory, 10, REGENT-STREET and 18, CHANCERY-LANE. Patent sealed on the 18th day of February, 1843, for Fourteen Years, for Improvements in the sliding shutters of Windows and DOORS, consisting of Six Metallic Panels, having Revolving Shutters, without Mullions, and Top for Hinging and other Joints, the Edges of Wood Lathe with Iron.—The Patentee having fixed up some Shutters, will feel pleased to give or state the Testimonials of Architects, Principals of Large Establishments, and others, that may require it, which fully exemplifies the Patentee in stating they are beyond dispute superior to any other like-hung Shutter for durability, security, and simplicity, without the use of projected Bars and screw gear, or any other complicated machinery employed by other makers.

BUNNETT and CORPE, ENGINEERS, Patentees of REVOLVING IRON AND WIRE SAFETY SHUTTERS and of ORNAMENTAL METALLIC SASH BARS, MOULDINGS, &c., IN BRASS, COPPER, ZINC, &c.

Beg respectfully to submit a card, herewith, with the Revolving Shutters, either from or outside of any other makers, whatever their peculiarities. The extraordinary decision, evinced by the universal satisfaction given for BUNNETT and CORPE'S PATENT REVOLVING SHUTTERS (of which some thousands have been fixed in all parts of the kingdom), has so induced other parties to adopt the principle, as far as in their power, of a cheap description of a badly fitted and descended invention, as Improvements. It and it, assure their Friends and the Public that, during their many years' practice, they have adopted every really practical improvement that skill and experience could suggest. A great reduction has also been made in the price, and they are now able to CHEAPER, as well as BETTER, than any others.

The pieces of the Patent Steel-like Sash Bars have been revised and reduced to Sixty Pounds, and are now formed and fixed in a superior style, either plain or ornamental, across drawn moulded or silvered plates handsomely engraved. Shop Fronts, &c. completely glazed with best plate glass.

SKYLIGHTS manufactured to any desired extent in Wrought or Cast Iron, Copper, or Zinc.

Hand Lamps, for Warren and Morgan's PATENT DRAWING DARTINGS, for sweep at shop fronts, for shop fanlights, and bedroom Easements, &c., which does not obscure the light, or hurt the Curtains of Ladies walking out or standing on the same.

IMPROVED PATENT BENCH AND FLOORING CRAMPS FOR BUILDERS.

Patentees of Self-Acting Ribbon Traps for Sewers, Drains, &c.

Manufacturers of Improved Patent Screwing and other machinery, especially adapted for timber purposes, which may be seen in operation, daily, at the Works, Deptford, Kent.

Estimates given, and Contracts taken in town or country. Patterns and every particular may be obtained on application at the Office of the Patentees, 38, Lombard-street, London; and at the Works, Deptford, Kent.

PATENT CONVEX REVOLVING IRON SHUTTERS, recently manufactured under licence, by the late firm of R. HOWARD and Co., 69, Fleet-street.

HARCOURT QUINCEY, Patentee.

CLARK and Co., Manufacturers, beg to call the attention of Architects, Builders, and others, to the IMPORTANT IMPROVEMENTS in the above Shutters, and respectfully invited at their Manufactory, 28, Wapping, or at their Agents, 4, New Bedford-street. The great importance of convenience and safety, in the habits of REVOLVING IRON SHUTTERS, in affording increased security, to obviate, and it is only necessary to point out the fact, that the patent convex laths are twenty times stiffer than the ordinary flat laths, to insure their general adoption.

CLARK and Co. also invite attention to their recently improved registers for warming and covering the pipes, which, in one set of the advantages of the rainbow-form worm and barrel, cannot, even by wear, be liable to rub down, and obliterate at once the necessity of using the rat-tail wheel, and is at once simple and the highest effect; and PAPILLON'S PATENT REVOLVING pin, pins are adopted for that purpose; thus rendering the Patent Revolving Shutters the SAFEST and MOST EFFECTIVE in use. These Shutters are fixed horizontally, either above or below the window or doors, or vertically, for which purpose the steady motion and effect of the convex laths renders them particularly suitable; and one, as applied to a doorway, may be seen any day after Four o'clock at the Britannia Life Assurance Office, corner of Princes-street, Bank.

CLARK and Co. are the SOLE MANUFACTURERS of REVOLVING SHUTTERS, WITH CONVEX IRON LATHS, Engravings and Prospectuses forwarded on application. IMPROVED DRAWN METALLIC SASH BARS, ASTRAGALS, MOULDINGS, STALL-BOARD PLATES, &c.

Steam Engines always on hand. Sawing and Planing Machinery of every description made to order. Wrought-iron Hot and Cast-iron Girders for bridges, buildings, &c.—CLARK and Co., Engineers, 28, Wapping, or at the New Bedford-street, London.